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Derwent Title: Composite gypsum board having improved bending strength and surface precision - is mfd. by mixing alpha-type hemihydrate gypsum, dried waste paper pulp, inorganic powder and water, moulding and curing [[Derwent Record](#)]

Country: JP Japan

Kind: A

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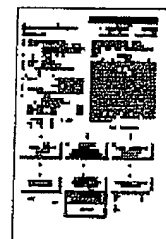
Priority
Number: 1991-03-29 JP1991000066229

Abstract: PURPOSE: To obtain a composite gypsum board having improved flexural strength and surface accuracy by adding water to a mixture of α -gypsum hemihydrate, dried waste paper pulp and inorganic powder, mixing and forming the mixture and curing the formed product.

CONSTITUTION: Raw materials composed of 95-45wt.% of α -gypsum hemihydrate having a Blaine specific surface area of 1,000-8,000cm²/g, 3-45wt.% of dried waste paper pulp having a diameter of 20-100 μ m and a length of 50-3,000 μ m and 2-20-wt.% of inorganic powder (shirasu balloon) having a fineness of 20-500 μ m are mixed with each other by a mixer, added with 20-60wt.% of water (based on 100wt.% of the α -gypsum hemihydrate) using a spray nozzle under pressure and further mixed. The obtained mixture is transferred to a forming machine and formed in the form of a mat. The mat is transferred to a press, pressed under the condition of 5-50kgf/cm² to obtain a board, cured at room temperature to 45°C and dried at 70-90°C to obtain the objective composite gypsum board having a bulk density of 0.8-1.5 and a flexural strength of 50-150 kgf/cm².

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Family: None

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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract
Info:

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